BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 4000000.00

Name of Work: Detailed Estimate for the work of Improvements to roads and construction of drains at Surabhi layout main and cross roads in ward No - 01 of Yelahanka Sub Division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1 Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3, No. 138/ Item No. 19.1/ PWD SR 2014-15	cum							
	Berm cutting 1st cross		2	26.50	1.00	0.45	23.85		
	2nd cross		2	25.50	1.00	0.30	15.30		
	main road		2	370.00	1.00	0.45	333.00		
	cross road		2	61.00	1.00	0.35	42.70		
	Pyramid road		2	35.00	1.00	0.30	21.60		
	Arun shelter road		2	42.00	1.00	0.30	25.20		
							451.65	**75.60**	**34901.00**
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
2	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No 2.3/ PWD SR 2014-15	cum							
	Shivanahalli main road rcc drain		1	190.00	1.00	0.90	171.00		
	4th cross		2	36.50	1.00	0.90	65.70		
	Right side 1st cross		1	26.50	1.00	0.90	23.85		
	2nd cross		1	25.50	1.00	0.90	22.95		
	for culvert		3	5.20	1.50	1.20	28.08		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							311.58	176.04	54851.00
	Basic Rate	163.00							
	Area Weightage @ 8%	13.04							
	Total	**176.04**							
3	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M 100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 130 (SR 2014-15)	cum							
				Vide Item No. 1+2			773.23	79.10	61162.00
	Basic Rate for loading and unloading	63.00							
	Basic Rate for Haulage upto 4.00 k m =1.28 X 2 X 4	10.24							
		73.24							
	Area Weightage @ 8%	5.86							
	Total	**79.10**							
4	KSRRB M300-53 construction of embankment with approved material gravel/murrum with all lifts and leads transporting to site, spreading grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No 305.4.3 No 144/ Item No 19.60/ PWD SR 2014-15	cum							
	left side 4th cross		1	36.50	4.50	0.50	82.13		
							82.13	**220.32**	**18094.00**
	Basic Rate	204.00							
	Area Weightage @ 8%	16.32							
	Total	**220.32**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRB 5-14 Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S 2185/1965 in superstructure including cost of materials labour charges, scaffolding, curing complete as per specifications. Page No.25 item No 5.27 SR 2014-15	sqm							
	pyramid road		4	36.00	0.20		28.80		
	Arun shelter road		4	42.00	0.20		33.60		
							62.40	993.60	62001.00
	Basic Rate	920.00							
	Area Weightage @ 8%	73.60							
	Total	993.60							
6	Removing R/ S slab of drain and stacking item no 5.32 page No 25 SR 2014-15	sqm							
	pyramid road		4	36.00	1.35		194.40		
	Arun shelter road		4	42.00	1.35		226.80		
							421.20	58.32	24564.00
	Basic Rate	54.00							
	Area Weightage @ 8%	4.32							
	Total	58.32							
7	Refixing stone slabs of drains and pointing in C.M (1:3) item no 5.33 page No 25 SR 2014-15	sqm							
	70% refixing						294.84		
							294.84	75.60	22290.00
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	75.60							
8	Providing 7.5cms thick granite slabs of selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc complete Item No 5.31 page No 25 SR 2014-15	sqm							
	30% missing qty						126.36		
							126.36	639.36	80790.00
	Basic Rate	592.00							
	Area Weightage @ 8%	47.36							
	Total	639.36							

Sl no	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
9	KSRB-4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement at 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications Specification No. KBS 4.1.4.2, No. 12/ Item No. 4.2/ PWD SR 2014-15	Cum							
	Shivanahalli main road rcc drain		1	190.00	1.00	0.15	28.50		
	4th cross		2	36.50	1.00	0.15	10.95		
	Right side 1st cross		1	26.50	1.00	0.15	3.98		
	2nd cross		1	25.50	1.00	0.15	3.83		
	for culvert		3	5.20	1.20	0.15	2.81		
	profile correction for smooth flow of water Pyramid road		2	36.00	0.45	0.15	4.86		
	Arun shelter road		2	42.00	0.45	0.15	5.67		
							60.59	**5064.12**	**306824.90**
	Basic Rate	4689.00							
	Area Weightage @ 8%	375.12							
	Total	**5064.12**							
10	KSRB-4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, **lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc** including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1.4.6, No. KBS 4.1.4.5, No. 13/ Item No. 4.11/ PWD SR 2014-15	Cum							
	for RCC drain bed 1st main		1	190.00	1.00	0.15	28.50		
	side walls		2	190.00	0.15	0.90	51.30		
	bed 4th cross		2	36.50	1.00	0.15	10.95		
	side walls		4	36.50	0.15	0.90	19.71		
	bed right side 1st cross		1	26.50	1.00	0.15	3.98		

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	side walls		2	26.50	0.15	0.90	7.16		
	bed 2nd cross		1	25.50	1.00	0.15	3.83		
	side walls		2	25.50	0.15	0.90	6.89		
	bed for culvert		3	5.20	1.20	0.15	2.81		
	side walls		6	5.20	0.20	0.90	5.62		
	deck		3	5.20	1.20	0.23	4.31		
	coping pyramid road		4	36.00	0.20	0.10	2.88		
	Arun shelter road		4	42.00	0.20	0.10	3.36		
							151.27	**6065.28**	**917492.00**
	Basic Rate	5616.00							
	Area Weightage @ 8%	449.28							
	Total	**6065.28**							
11	KSRB 4.9.2 providing T.M.T steel reinforcement for R.C.C. work including straightening, cutting bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 19/ Item No. 4.45/ PWD SR 2014-15	**Quintal**							
	90 kg/cum for RCC drain		0.900	**132.30**			119.07		
	100kg/cum for culvert		1.000	**12.73**			12.73		
				145.03			**131.80**	**7254.80**	**956180.00**
	Basic Rate	7254.80							
12	KSRB 4-6.4 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters, bittresses ,buttresses plinth and string course including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2014-15	**sqm**							
	Shivanahalli main road rcc drain	1x4	4	190.00	0.90		684.00		
	4th cross	2x4	8	36.50	0.90		262.80		
	Right side 1st cross	1x4	4	26.50	0.90		95.40		
	2nd cross	1x4	4	25.50	0.90		91.80		
	for culvert side walls	3X4	12	5.20	0.90		56.16		
		3X1	3	5.20	1.20		18.72		
	deck	3X2	6	5.20	0.23		7.18		
		3X2	6	1.20	0.23		1.66		
							1217.71	**292.68**	**356400.00**
	Basic Rate	271.00							
	Area Weightage @ 8%	21.68							
	Total	**292.68**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	~~14.80~~							
	Total	~~198.80~~							
10	RCC Precast covering slab for drain (10cm thick)	sqm							
	Shivanahalli main road rcc drain		1	190.00	0.90		171.00		
	left side 2nd cross		~~1~~ 2	~~61.00~~ 60.00	0.90		~~54.90~~ 54.00	100.40	
	3rd cross		1	35.00	0.90		31.50		
	4th cross		2	35.00	0.90		63.00		
	Right side 1st cross		1	24.00	0.90		21.60		
	2nd cross		2	25.00	0.90		45.00		
							450		674100.00
	Rate Approved by BBMP	1498.00					387.00	1498.00	579726.00
							Sub Total		3571427.00
11	KRIDL Charges + Labourcess 11%								392857.00
12	1% of Quality control charges								35714.00
13	Miscellaneous charges								2.00
								Total	4000000.00

(Rupees Forty Lakhs Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

ADMINISTRATIVELY SANCTIONED FOR Rs. 4000000
Rupees Forty lakhs only
Under P0190 mayor grants
Subject to conditions
enclosed memo EE(
Dt 06/11/2014
BBMP/YNK/JC/AA/1043/14-15
dated 06/11/2014

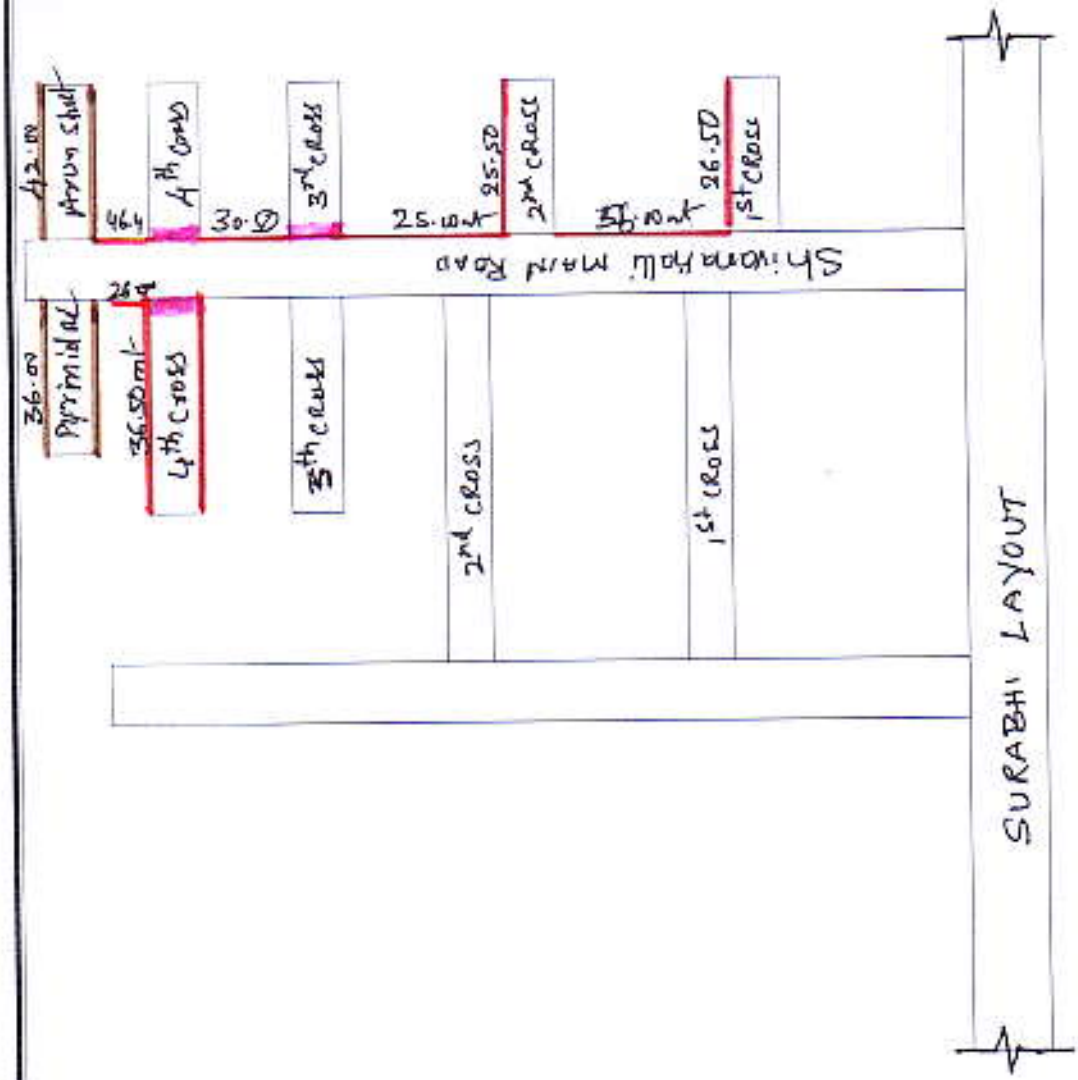
06/11/2014

Commissioner
(East Zone)
BBMP, Bengaluru-92

~~Administrative~~ Sanction for Rs. 40,00,000/-
Forty lakhs only
is accorded under head P0190 mayor grants
registered as CE No ...../.....Subject to Conditions contained in enclosed memo
BBMP/YNK/CE/TS/65/14-15 6/11/14

AE/JE TA SE (BTP) CE (BTP)

NAME OF WORK: Improvements to roads and construction of drains at Surabhi layout main and cross roads in ward No - 01 of Yelahanka Sub Division.



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- proposed Flagging

Asst. Executive Engineer
Yelahanka Sub-Division
(BBMP Yelk. Zn)